

## CLAIMS

## WHAT IS CLAIMED IS:

1. A band saw blade stabilizer for stabilizing a moving band saw blade of a band saw appliance, the  
5 stabilizer comprising:

a) two opposing guide structures situated to form a passage there between with a passage width such that the moving band saw blade can pass within said passage, whereby said guide structures limit lateral  
10 motion of the moving band saw blade within said passage; and

b) an attachment mount for securing the guide structures to the band saw appliance above a work table of said appliance and through which the band saw  
15 blade travels.

2. A band saw blade stabilizer as claimed in Claim 1 wherein the attachment mount is selectively vertically adjustable for increasing and decreasing distance of the guide structures from the work table.

20 3. A band saw blade stabilizer as claimed in Claim 1 wherein the two guide structures are disposed within a single housing having a cut-out therethrough in alignment with the passage.

4. A band saw blade stabilizer as claimed in Claim 1  
25 wherein the guide structures are configured to present substantially flat opposing surfaces to each other.

5. A band saw blade stabilizer as claimed in Claim 4 wherein the guide structures are configured as cubes.

6. A band saw blade stabilizer as claimed in Claim 1  
30 wherein at least one of said guide structures is provided with an adjustor for selective lateral movement of said at least one guide structure toward and away from the opposing guide structure for selective change of the passage width.

7. A band saw blade stabilizer as claimed in Claim 6  
35 wherein the adjustor comprises an externally accessible

hand operable set screw having a distal end disposed within a bore of said at least one guide structure.

8. A band saw blade stabilizer as claimed in Claim 1 additionally comprising a thrust bearing situated behind  
5 and in contact with the saw blade for limiting rearward movement of the blade.

9. A band saw appliance comprising:

a) a work table;

10 b) a continuous band saw blade operably movable vertically through a slot in the work table; and

c) a band saw blade stabilizer for stabilizing the band saw blade during band saw blade operation, the stabilizer comprising:

15 i) two opposing guide structures situated to form a passage there between with a passage width such that the moving band saw blade can pass within said passage, whereby said guide structures limit lateral motion of the moving band saw blade within said passage; and

20 ii) an attachment mount for securing the guide structures to the band saw appliance above a work table of said appliance and through which the band saw blade travels.

10. A band saw appliance as claimed in Claim 9  
25 wherein the attachment mount of the blade stabilizer thereof is selectively vertically adjustable for increasing and decreasing distance of the guide structures from the work table.

11. A band saw appliance as claimed in Claim 9  
30 wherein the two guide structures of the blade stabilizer thereof are disposed within a single housing having a cut-out therethrough in alignment with the passage.

12. A band saw appliance as claimed in Claim 9  
35 wherein the guide structures of the blade stabilizer thereof are configured to present substantially flat

opposing surfaces to each other.

13. A band saw appliance as claimed in Claim 12 wherein the guide structures of the blade stabilizer thereof are configured as cubes.

5 14. A band saw appliance as claimed in Claim 9 wherein at least one of said guide structures of the blade stabilizer thereof is provided with an adjustor for selective lateral movement of said at least one guide structure toward and away from the opposing guide structure  
10 for selective change of the passage width.

15 15. A band saw appliance as claimed in Claim 14 wherein the adjustor of the blade stabilizer thereof comprises an externally accessible hand operable set screw having a distal end disposed within a bore of said at least one guide structure.

16. A band saw appliance as claimed in Claim 9 wherein the blade stabilizer thereof additionally comprises a thrust bearing situated behind and in contact with the saw blade for limiting rearward movement of the blade.